

# *Digital Infrared Photography Professional Techniques And Images*

How to shoot dramatic wedding photos with infrared film.

WINNER OF THE 2001 KRASZNA-KRAUSZ PHOTOGRAPHY BOOK AWARD

(Technical Photography category) The only definitive book to fully encompass the use of photography and imaging as tools in science, technology and medicine. It describes in one single volume the basic theory, techniques, materials, special equipment and applications for a wide variety of uses of photography, including: close up photography and photomacrography to spectral recording, surveillance systems, radiography and micro-imaging. This extensively illustrated photography 'bible' contains all the information you need, whether you are a scientist wishing to use photography for a specialist application, a professional needing to extend technical expertise, or a student wanting to broaden your knowledge of the applications of photography. The contents are arranged in three sections: · General Section, detailing the elements of the image capture process · Major Applications, describing the major applications of imaging · Specialist Applications, presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance, followed by explanations of essential

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theory and an overview of techniques and equipment. Mathematics is only used where necessary. Numerous applications and case studies are described. Comprehensive bibliographies and references are provided for further study.

In *The Power of Black and White in Nature and Landscape Photography*, author and photographer Rob Sheppard shows you that creating beautiful black-and-white images involves so much more than just removing color. He begins by discussing how the history and tradition of black-and-white photography affect you as a photographer. He then shares the key elements to making dramatic images in shades of gray—contrast in brightness or tonality, texture, pattern, and sharpness—and explains the significance of tonal contrast in defining your images. Finally, he walks you through image-processing techniques with the software of your choice, as you translate your color images into stunning black-and-white photographs. Follow along with Rob and you will: Challenge your color memory and learn to think in shades of gray and black and white Understand the range of possibilities of contrast in tone, texture, pattern, and sharpness Translate color images into beautiful black and white with Adobe Lightroom and Camera Raw, Nik Software Silver Efex Pro, Photoshop, and Photoshop Elements

Photographing female nudes is about more than just the body. For Laurie Klein, it is about capturing the feminine spirit. Laurie's creative medium is nature. The landscape plays as much of a role in her photos as does the model. Laurie's unique way of using infrared photography, and the caring, personal way she captures her subject's

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innermost emotions becomes a transformational experience for both photographer and client. In this book, Klein details her techniques and her inspirations in creating these unforgettable images. Shooting nudes in nature is complex. The photographer needs to know when to start with the model and arrange nature around them or see something in nature and treat the model as part of the nature. Klein gives many ideas for posing models in relationship to nature and the landscape. She masterfully uses infrared photography to capture the beauty of the surroundings and the female form. Each photo in the book is accompanied by details of the location or setting, camera settings, composition concepts and insight into the idea and execution of the shot. Part of what makes Klein's photos so unique and vibrant is that she develops a trusting environment that allows the subject to give themselves over completely to a transcendent photographic experience. Out of this usually comes a series of fine art portraits or a substantial book for them to enjoy, share and pass on through the generations. Using the body as a landscape, Klein crafts unique and sometimes abstract images that emphasize the beauty of the female form in different ways. Sometimes the simplicity of the image is the beauty of it. The infrared photography format provides striking contrasts between the skin tones and the natural surroundings. Tips are given for choosing unique locations that can work best for creating artful images like the ones in the book. Being able to improvise and set-up a shoot when discovering a unique setting or lighting scenario can be the key to crafting a stunning portrait. Sometimes the

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unexpected can occur and a prepared and creative photographer can turn that into a magical moment captured in infrared. Klein is recognized for her signature infrared photography style. This book provides in insight into her creative process.

David Busch's Digital Infrared Pro Secrets

Digital Techniques for Brilliant Images

Digital Photography Hacks

Insect Photography

Techniques and Images in Black & White

BetterPhoto Basics

Learn the techniques that produce stunning black and white or color infrared images, from selecting subjects, film, and filters to focusing, hand coloring, and processing infrared.

Tilt and shift lenses offer tremendous creative possibilities for users of digital SLR and mirrorless cameras. This practical book explains the techniques that will help you take better photos - photos that don't distort or lose focus. Assessing the benefits and pitfalls of a range of lenses, adapters, software and editing techniques, it guides you through the practicalities of working with these lenses and gives you the skills to use them to best effect. With stunning examples throughout, this book gives an overview of the different lenses available, and tips on how adapters can give tilt/shift options when using old medium-format lenses. It gives advice on how simple lens shift can change the entire look of your photos, and techniques for using lens tilt for focus control and close-up working. Stunning examples show the use of tilt and shift lenses across a range of available focal lengths, both tripod-mounted and handheld.

To record the "invisible light " has always been an intriguing and fascinating experiment. The infrared

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part of the light spectrum is outside the range of what the human eye can see, but with a digital camera, we are able to record only this "invisible light " while blocking the "visible " part. The results are often unusual, yet beautiful, renderings of otherwise fairly common scenes. Since as far back as the 1960 's artists have experimented with analog infrared photography, as seen on the album covers of Jimi Hendrix and Frank Zappa. But as we enter the digital age, new equipment and technology has opened up the exciting world of infrared photography to all. This compact guide to infrared photography shows the beauty of infrared imagery, but also teaches how to shoot these images with your digital camera. The book provides the basic theoretical background, some information on cameras, filters and equipment, and lots of guidance on how to do infrared photography. This beautifully designed and illustrated book is the perfect companion for the aspiring photographer wanting to explore new photographic territories. Laboratory Imaging and Photography: Best Practices for Photomicrography and More is the definitive guide to the production of scientific images. Inside, the reader will find an overview of the theory and practice of laboratory photography, along with useful approaches to choosing equipment, handling samples, and working with microscopic subjects. Drawing from over 150 years of combined experience in the field, the authors outline methods of properly capturing, processing and archiving the images that are essential to scientific research. Also included are chapters on applied close-up photography, artificial light photography and the optics used in today's laboratory environment, with detailed entries on light, confocal and scanning electron microscopy. A lab manual for the digital era, this peerless reference book explains how to record visual data accurately in an industry where a photograph can serve to establish a scientific fact. Key features include: Over 200 full-color photographs and illustrations A condensed history of scientific photography Tips on using the Adobe Creative Suite for scientific applications A cheat sheet of best practices Methods used in computational photography

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Digital Infrared Photography

The Journey of Photographic Vision

Forensic Photography Techniques

The Basic Book of Digital Photography

Art and Techniques

Master Guide for Professional Photographers

***Softboxes—specialized photographic lighting devices that produce a flattering and soft, low-contrast look—are the main focus of this resource for photographers. Professional and amateur photographers alike will be able to apply the thorough explanations on the simple, yet highly effective, light- and shadow-altering methodologies found in this guidebook to any subject matter in portrait, fashion, and editorial images.***

***Additional chapters cover the use of softboxes in partnership with other light sources, including sunlight and various types of studio lighting treatments.***

***Exploring the dynamic possibilities of infrared portrait photography, this book presents more than 50 black-and-white portraits and explains how each one was created. Using both***

***traditional and conceptual poses and subjects, the reader will discover what portrait compositions photograph best in infrared, what to expect from different compositions, and which ones to avoid. It includes an explanation of the difference between types and brands of film, focusing techniques, and techniques for customizing and displaying infrared portraits. This guide also offers advice on selecting the best equipment, film, and filters, and tips for handling, processing, and printing sensitive infrared film.***

***Learn to harness and capture infrared wavelengths with an infrared-converted digital camera. The authors teach you how those invisible light wavelengths will be recorded in-camera and the steps you'll need to take to ensure the best-possible photographs. You'll study myriad images that show how various materials—from skin, hair, and eyes to the sky, trees, grasses, and clouds—will appear in your images and learn to predict the way that the colors and tones you perceive with your naked eyes will be rendered in-camera. You will discover compositional techniques that will visually engage your***

***audience. Finally, you'll learn how to use artistic applications to add selective color to your black & white infrared images, how to create dramatic color infrared photographs that take infrared capture to a whole new level, and how to edit your images in postproduction for enhanced contrast and superb detail.***

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***Capture Invisible Light with A Digital Camera***

***Shooting and Selling Techniques for Photographers***

***Transform Your Images with Traditional & Contemporary Art Techniques***

***Digital SLR Cameras and Photography For Dummies***

***How to Shoot, Enhance, and Share Your Digital Pictures***

***Professional Techniques and Images***

Armed with a digital camera, wedding attendees can create snapshots of the their friend's big day with the camera, lighting, posing, and composition skills taught in this step-by-step manual. Beginning with a discussion of digital capture basics and how to ensure the best possible exposure by selecting the appropriate ISO settings, photographers learn how to create the setting that produces the best results under any lighting conditions. Posing is also covered so that, armed with some general principles and strategies, amateur photographers can greatly improve their sense of portraiture. Sections on unusual situations teach readers how to make the best of mixed lighting conditions, flatter subjects, avoid exposure problems, and use the

**flash indoors; while tips on using Adobe Photoshop Elements help photographers give their photographs that professional edge.**

**Insect photography is a challenging and stimulating art. Well-shot images give stunning results, which can aid study and enhance enjoyment of the natural world. This practical book explains how to reliably take those photographs. Through introducing insects and their behaviour, it advises on when and how to see nature at work and, by instructing on techniques, it shows how to capture the moment to dramatic effect. Advises on buying and using equipment for both compact camera and SLR users. Describes how to find and understand insects, and encourages responsible photography and good fieldcraft. Instructs on composition, exposure, lighting and advanced techniques. Suggests ways of sharing images, cataloguing and caring for them, and backing them up. Aimed at amateur and professional naturalists and photographers, as well as artists. Insect photography is a challenging and stimulating branch of the photographic art. This practical book introduces you to the world of insects, teaching you to take reliably stunning photographs through good fieldcraft, honed technical skill and an understanding of the subject. Aimed at amateur naturalists who would like to be able to use basic equipment; professional entomologists and naturalists and serious amateur and professional photographers. Beautifully illustrated with 292 colour photographs. John Bebbington**

**is a teacher of photography, fellow of the Royal Photographic Society and chairman of the RPS Nature Group.**

**Absolutely anyone can take better photos! If you can press a button, you can take great pictures. It's as simple as that. In BetterPhoto Basics, Jim Miotke, founder of the popular online photography school BetterPhoto.com, shares tips and tricks to improve your photos right away, no matter what camera you're using. Too busy to read a book? No problem—flip to any page for an instant tip to use right away! Learn to compose knockout shots, make the most of indoor and outdoor light, and photograph twenty popular subjects, from sunsets and flowers to a family portrait. Those who want to go further get tips on controlling exposure and the secrets behind ten advanced creative techniques. And everyone will appreciate Jim's breakdown of easy fixes to make in Photoshop. No matter what your level of experience, you'll be amazed how easy it is to start taking photos like the pros.**

**Provides information on applying infrared techniques to digital photography.**

**Within the Frame**

**Techniques For Getting Great Pictures**

**Photographing the Female Form with Digital Infrared**

**Understanding Digital Photography**

**The Art of Infrared Photography**

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## **Infrared Photography**

Digital Ultraviolet and Infrared Photography discusses the growing number of applications of ultraviolet and infrared photography. Scientific and technical photographers, such as those engaged in scientific, medical, forensic, and landscape and wildlife photography routinely use ultraviolet and infrared techniques, and these techniques are growing in use in creative photography. This is the first book to address the application and potential for both ultraviolet and infrared photography in both science and art. The author, Adrian Davies, discusses the how-to of ultraviolet and infrared digital recording with a dissection of techniques, camera requirements and camera conversion, a useful appendix of resources and equipment currently available and inspirational image examples throughout. Digital Ultraviolet and Infrared Photography is an essential read for photographers using these tools either professionally or creatively.

Within the Frame is a book about finding and expressing your photographic vision, specifically where people, places, and cultures are concerned. A personal book full of real-world wisdom and incredible images, author David duChemin (of [pixelatedimage.com](http://pixelatedimage.com)) shows you both the how and the why of finding, chasing, and expressing your vision with a camera to your eye. Vision leads to passion, and passion is a cornerstone of great photography. With it, photographs draw the eye in and create an emotional experience. Without it, a photograph is often not worth—and can't capture—a viewer's attention. Both instructional and inspirational, Within the Frame helps you on your photographic journey to make

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better images of the places and people you love, whether they are around the world or in your own backyard. duChemin covers how to tell stories, and the technology and tools we have at our disposal in order to tell those narratives. Most importantly, he stresses the crucial theme of vision when it comes to photographing people, places, and cultures—and he helps you cultivate and find your own vision, and then fit it within the frame.

Joe Farace is an award-winning photographer with more than 30 books and 1,600 articles to his credit. So there's no one better to take monochrome into the digital age. Whether you're shooting digital black and white from your camera or converting color photographs to monochrome on the computer, you'll discover an array of unique, innovative, and inspirational techniques suitable for shutterbugs of every level. Farace explains what kinds of software programs are best, and how to use them to manipulate your photos in diverse ways. He also discusses various in-camera effects including toning and soft focus. The detailed information and instruction cover everything from creating traditional looking black-and-white or sepia images, to adding color selectively for a one-of-a-kind, fine-art approach. Jill Enfield's *Guide to Photographic Alternative Processes*, 2nd edition, is packed with stunning imagery, how-to recipes, techniques and historical information for emulating the ethereal, dream-like feel of alternative processing. This fully updated edition covers alternative processing from its historical roots through to digital manipulation and contemporary techniques and how to combine them. It features several new techniques alongside new approaches to older techniques, including

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hand painting on silver gelatin prints, ceramics and photography, cyanotypes, wet plate collodion, digital prints and many more. Enfield showcases the different styles and methods of contemporary artists together with suggestions for vegan and vegetarian friendly alternative processing, transforming 2D images to 3D installations, and how to apply darkroom techniques to digital captures.

Professionals, students and hobbyists will discover how to bring new life and imagination to their imagery. Whether in a darkroom using traditional chemicals, at the kitchen sink with pantry staples, or in front of the computer re-creating techniques digitally, you will learn how to add a richness and depth to your photography like never before.

Photography with Tilt and Shift Lenses

Laboratory Imaging & Photography

The Power of Black and White in Nature and Landscape Photography

How to Take Great Digital Photos of Your Friend's Wedding

Digital Portrait Photography of Teens and Seniors

Crime Scene Photography

**Accessible for professionals and hobbyists alike, this guide helps photographers the transition from traditional flash and hot lights to light-emitting diode (LED) the hottest new trend in lighting technology. It demystifies the process of choosing the right LED light for projects, presents commonsense methods for using LEDs and suggestions for achieving the perfect lighting colour and balance. Includes exam**

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how to use LEDs in still life images, portraits and even moving pictures. The essential guide to the biggest new trend in photography.

\* In the perfect companion to the bestselling 50 Fast Digital Photo Techniques (0-7645-3578-1), three highly acclaimed professional photographers share 50 fast, easy, and powerful camera tricks both professionals and creative amateurs learn to use almost instantly \* Where the first book focused on digital editing techniques, this one explores using digital cameras, lighting, filters, and concepts to produce professional results with "wow!" \* Lavishly illustrated with stunning professional photography \* Cross-platform for Windows and Mac, and tailor-made for the exploding digital photography market \* Companion Web site and CD-ROM are both packed with additional images from the book as well as valuable utilities

Digital Infrared Photography Professional Techniques and Images Amherst Media, Inc. "Authored by the Digital Photographic Documentation Task Force of the American Institute for Conservation of Historic and Artistic Works"--P. 11.

The Better Photo Guide to Exposure

Digital Ultraviolet and Infrared Photography

Jill Enfield's Guide to Photographic Alternative Processes

Creative Digital Monochrome Effects

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### Alternate Light Source Imaging

Crime Scene Photography is a book wrought from years of experience, with material carefully selected for ease of use and effectiveness in training, and field tested by the author in his role as a Forensic Services Supervisor for the Baltimore County Police Department. While there are many books on non-forensic photography, none of them adequately adapt standard image-taking to crime scene photography. The forensic photographer, or more specifically the crime scene photographer, must know how to create an acceptable image that is capable of withstanding challenges in court. This book blends the practical functions of crime scene processing with theories of photography to guide the reader in acquiring the skills, knowledge and ability to render reliable evidence. Required reading by the IAI Crime Scene Certification Board for all levels of certification Contains over 500 photographs Covers the concepts and principles of photography as well as the "how to" of creating a final product Includes end-of-chapter exercises

Featuring plentiful advice on how to maximize the existing technology, this guide to digital photo art shows readers how to move beyond mere manipulation to find the true creative potential of powerful tools like Adobe Photoshop and Color Efex Pro. Original. The Canon EOS 6D Mark II boasts 26 megapixels of resolution, blazing-fast autofocus, built-in GPS, and wireless communications with other media. Busch shows you how,

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when, and why to use all the cool features, controls, and functions, so that you can take great photographs and video. Readers will get a thorough grounding in the elements of superior photography while mastering the camera's operation.

Presents a collection of tips on digital photography and digital cameras, covering such topics as digital camera attachments, nighttime photography, using a flash, using Adobe Photoshop, and printing photographs.

50 Fast Digital Camera Techniques

The Digital Photographer's Guide to Getting Great Results with Minimal Equipment For Professional Photographers

Best Practices for Photomicrography & More

Digital Photo Art

Softbox Lighting Techniques

Using minimal equipment and maximizing opportunities, this informative reference demonstrates how to shoot glamour portraits in any available light situation. Working with both professional models as well as amateurs and using no more equipment than the basics, this guide provides instruction for creating easy-to-build modifiers, addressing a model's figure and appearance concerns, harnessing natural light, and adapting to any location or backdrop. Beginning and established shutterbugs looking to diversify their work and

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professional photographers seeking fresh ideas and techniques will find an abundance of information in this guide.

Using his popular bad image/good image pairings of real-life examples, Bryan Peterson takes the reader through all the techniques needed to succeed with digital photography in every popular genre: nature, people, sports, interiors, travel, low-light conditions, travel, weather, commercial portraits, macro, and wildlife—even how to use creative tricks such as reflections. As a bonus, Peterson explains, in straightforward text, the techniques of Photoshop as well as the basics of publishing, printing, and archiving and storing for personal or professional use. Full of great examples for beginners and serious photographers, *Understanding Digital Photography* makes it easy to create great digital pictures every time.

*Digital Ultraviolet and Infrared Photography* discusses the growing number of applications of ultraviolet and infrared photography. Scientific and technical photographers, such as those engaged in scientific, medical, forensic, and landscape and wildlife photography routinely use ultraviolet and infrared techniques, and these techniques are growing in popularity in creative photography. This is the first book to address the application and potential for both ultraviolet and infrared photography in both science and art. Written for

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the seasoned photographer, author Adrian Davies discusses the how-to of ultraviolet and infrared digital recording with a dissection of techniques, camera requirements and camera conversion, together with a useful appendix of resources and equipment currently available. Digital Ultraviolet and Infrared Photography is an essential read for photographers using these tools either professionally or creatively.

Alternate Light Source Imaging provides a brief guide to digital imaging using reflected infrared and ultraviolet radiation for crime scene photographers. Clear and concise instruction illustrates how to accomplish good photographs in a variety of forensic situations. It demonstrates how tunable wavelength light sources and digital imaging techniques can be used to successfully locate and document physical evidence at the crime scene, in the morgue, or in the laboratory. The scientific principles that make this type of photography possible are described, followed by the basic steps that can be utilized to capture high quality evidentiary photographs.

David Busch's Canon EOS 6D Mark II Guide to Digital SLR Photography  
Infrared Portrait Photography  
Infrared Wedding Photography  
Scientific Photography and Applied Imaging

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## Complete Guide to Digital Infrared Photography

### Joe Farace's Glamour Photography

*The ultimate, up-to-the-minute digital photography handbook—from the authors of the bestselling Basic Book of Photography. The Basic Book of Digital Photography is the definitive guide to the expansive world of digital photography from two of the field's most established authorities. The Grimms' classic guide, The Basic Book of Photography, has sold over 400,000 copies since the first edition was published in 1974. Now they are steering photographers through the new era of digital imaging. This comprehensive handbook covers how to compose the best shots with cameras from point-and-shoot to the increasingly popular SLR (single lens reflex) models—and even cell phone cameras— and takes readers through the steps to improve, display, and preserve their images. The guide includes over 400 photos and illustrations, an extensive glossary and addresses everything from choosing a digital camera to storing files and printing photos. An indispensable accessory for amateur shutterbugs or dedicated professionals, this is the one handbook no digital photographer will want to do without.*

*Presenting advances in infrared photography, which has long been an artful alternative to traditional color or black-and-white photography, this guide provides tips for creating vivid infrared prints. Previsualizing the effects of infrared light on a subject, successfully using Adobe Photoshop to heighten the effects of infrared*

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*images, and creative toning and framing strategies are discussed. The savings from shooting digitally and using imaging programs during development are also detailed. Before-and-after photographs paired with instructive text provide a visual approach to this ethereal photography form.*

*Exposure. It's essential to producing high-quality photographs, but mastering exposure is difficult. At last there's a BetterPhoto guide to exposure, packed with BetterPhoto's signature assignments, diagrams, tips, and illustrations. It's like a full-scale photography course between the covers of the book—all taught the BetterPhoto way, just like photographers learn at the top photography-instruction site on the web. There's plenty of information here on both digital and film photography, discussing how different file formats affect exposure, how to adjust digital files, color correction, combining digital exposures, and much more. The author's stunning full-color photographs make this hardworking guide as inspiring as it is instructive.*

*Divided into two parts, this guide shows studio owners and photographers how to increase visibility, creativity, and financial rewards in the teen and senior portrait market. The first section is focused on technical mastery, gives tips on how to refine one's technique and remain competitive and providing advice on selecting the appropriate digital equipment and added artistic elements like indoor and outdoor sets, storytelling props, and fashionable backgrounds. The second section is devoted to successful marketing techniques that are low-cost and have a big impact, such as*

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*maintaining an Internet presence, offering special promotions, and producing direct-mail marketing pieces. Numerous marketing pieces from top studios are included as reference points.*

*Mastering Infrared Photography*

*LED Lighting*

*The AIC Guide to Digital Photography and Conservation Documentation*

*Go Beyond Black and White to Make Striking Digital Images*

*Professional Techniques for Digital Photographers*

*Popular Historical and Contemporary Techniques*

*From shooting basics to image editing, this textbook is an all encompassing reference that can be used by students in any level of photography class as well as those studying to complete the Certified Professional Photographer program.*

*Beginning with an overview of camera choices and basic camera functions, this guide outlines the fundamentals of lighting equipment, light theory, composition, and digital imaging while providing a comprehensive roadmap for efficiently taking images from conception to client presentation. Tips for overcoming obstacles are offered from the hard-won advice of photographers who have successfully passed the Professional Photographer Certification Program tests.*

*Cameras can capture what the eye can't perceive: the presence of infrared light. And shooting infrared (IR) with a digital camera makes it easier than ever to create*

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*distinctively dreamlike, high-contrast black-and-white pictures. Using a wealth of stunning images, this thorough resource explores the technical and creative possibilities of this unique and increasingly popular medium. Get tips on focus and exposure; IR filters; and having a camera converted to shoot specifically in infrared. Follow instructions for processing and printing the photos—including toner effects and faux color. One glance through this guide and it's clear why infrared pictures are fun to take and beautiful to look at.*

*Karen Dorame teaches you what you need to know to get started in color and black & white IR capture, showing you how to test your camera for its suitability to IR conversion, detailing the process, and discussing the costs involved. You'll learn to select and use filters for enhanced effects and will discover the way that various lenses will impact the way your IR images are rendered. Next, you'll delve into the heart of the matter—you'll learn how to anticipate the way the light will impact your imagery, how various surfaces will be rendered in IR, and you will discover special post-processing strategies designed to maximize the impact of your IR images. Finally, Dorame treats you to a look at the boundary-pushing work being done by other IR practitioners in the field, providing tips and inspiration that will help you take your work to the next level.*